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Stormwater Management Structure Shop Drawing Review Checklist

PROJECT NAME #: _____ Sediment Control Permit #: _____

SWM Structure #: _____ SWM File #: _____

This checklist is to be completed by the civil engineer submitting shop drawings for acceptance by MCDPS. The precaster is to send the shop drawings with structural computations to the civil engineer after plan approval, but prior to construction. The design civil engineer must review and approve the shop drawings per this checklist and submit it, along with two copies of the approved shop drawings, to the Water Resources Section of MCDPS. This checklist must be accepted by MCDPS prior to fabrication of the structure.

When certifying the correctness of shop drawings for acceptance by MCDPS the following (at a minimum) must be verified by the design civil engineer:

- ☐ Precast plant is approved by MCDOT.
- ☐ Interior dimensions as per the approved plan.
- ☐ Wall and slab thickness as per the approved plan.
- ☐ Correct size, number and placement of openings, orifices and manholes per the approved plan and any precast anchor points necessary for installation of the structure.
- ☐ Structural design certification and P.E. seal by preparer of shop drawing ("I hereby certify that the structural design of this structure is in accordance with applicable codes and that this structure has been designed for the specified loadings as indicated on the plan.")
- ☐ The following notes are to appear on the drawing:
 - ☐ Structure must be watertight.
 - ☐ Annular space between pipe and hole to be filled with an approved non-shrink grout or concrete (as specified). For Stormceptor and Stormfilter, a rubber boot connection is required. Adapters are available for HDPE pipe.
 - ☐ Butyl rubber to be used in all joints. All joints to be grouted with non-shrink grout, inside and out.
- ☐ Structural computations sealed by preparer of shop drawings.
- ☐ Anti-flotation restraints at construction joints (where applicable).
- ☐ Flotation computations (if any dimensions are changed from the approved plan).
- ☐ Steps (if required).
- ☐ Reference on shop drawings that fabrication to be in conformance with the latest edition and addenda of the MSHA Standards and Specifications for Construction and Materials.
- ☐ Reference on shop drawing that "Concrete design to meet ACI 350, Environmental Engineering Concrete Structures, with freezing and thawing exposures. Concrete shall be a type II or IIA cement with a 28 day compressive strength of 5000 psi.
- ☐ Other _____

Dimensional conformity with the approved Sediment Control/Stormwater Management plans is essential. Structures whose dimensions differ from the approved SC/SWM plans will be rejected. Dimensional modifications to the structure will not be allowed once the structure has been cast. It is the responsibility of the design engineer to insure the correctness of the shop drawings.

SUBMITTED BY: Firm: _____

Phone #: _____ FAX #: _____

Prepared By: _____ Date: _____

Checklist Acceptance By MCDPS: Name: _____ Date: _____